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| --- | --- | --- |
|  | **Inclusion: (Must answer YES to all)** |  |
| 1. | Patients aged 18 to 50 years |  Yes  No |
| 2. | Trauma patients admitted to Wishard Hospital (or Eskenazi Health) with any Orthopaedic injury who have been determined to be stable by the Trauma Service (General Surgery) and are no longer within the resuscitation phase of initial treatment. This is defined as a normal urine output (greater than 0.5 ml/kg/hr) and a systolic blood pressure greater than 90 mmHg for greater than 6 hours without fluid bolus or transfusion during that time |  Yes  No |
| 3. | Hemoglobin less than 9 g/dL or expected drop below 9 g/dL with planned surgery |  Yes  No |
|  | **Exclusion: (Must answer NO to all)** |  |
| 4. | Women who are pregnant |  Yes  No |
| 5. | Prisoner |  Yes  No |
| 6. | Head injury(Glasgow Coma Scale less than 8 over 48 hours from presentation) |  Yes  No |
| 7. | Known cardiac, renal (defined as having Serum Creatinine >1.2 at time of enrollment), liver, or pulmonary disease |  Yes  No |
| 8. | Sickle cell anemia |  Yes  No |
| 9. | History of cancer |  Yes  No |
| 10. | Preexisting weakness, paresthesias, deformities, or other conditions which might affect functional outcome in the surgeon’s opinion |  Yes  No |
| 11. | Spinal cord injury |  Yes  No |
| 12. | Unlikely to follow-up, as determined by the attending physician |  Yes  No |

If you answered yes to any of the items 4-12, the patient should be excluded.

Patient enrollment status:

□ Included

□ Excluded

□ Refusal to consent (otherwise met inclusion/exclusion criteria)

□ Inability to consent (otherwise met inclusion/exclusion criteria)